

A	Course Home Module 2 Take Test: Quiz 2.3	?
Та	ke Test: Quiz 2.3	
	Test Information	
De	escription	
	structions	
M	ultiple Attempts This test allows multiple attempts.	
Fo	orce Completion This test can be saved and resumed later.	
	QUESTION 1 True or false? Laplace transforms can be used to solve	
	differential equations.	
	True	
	QUESTION 2 1 points Saved	_
True or false? Laplace transforms can be used to find transfer functions.		
	True	
	O False	
	QUESTION 3 1 points Saved	

Consider the dynamical system described by $\dot{y} = -5y + u$, with output y

and input u. Using the Laplace transform, which of the following represents the transfer function?

You may presume all initial conditions are 0.

$$O(s) = \frac{Y(s)}{U(s)} = \frac{1}{s+5}$$

$$\frac{Y(s)}{U(s)} = \frac{1}{s-5}$$

¥ Question Completion Status:

$$U(s) = 1+s$$

$$\frac{Y(s)}{U(s)} = \frac{5}{s}$$

QUESTION 4

1 points

Saved

Which of the following transfer functions is NOT in proper form?

$$G(s) = \frac{s+1}{s+7}$$

$$G(s) = \frac{s+3}{2s^2+3s+4}$$

$$G(s) = \frac{s^2 + 2}{s^3 + 2s^5 + 5s}$$

$$G(s) = \frac{5s+2}{s^2+s+2}$$

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

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